

Appln. Serial No. 10/066,097
Amendment Dated November 16, 2007
Reply to Office Action Mailed August 22, 2007

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AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1 1. (Currently Amended) A method for ~~publication and~~ discovery of e-services provided by
2 service provider organizations, the method executable in a system associated with a client
3 organization and that includes a discovery agent and a client agent, the method comprising:
4 ~~employing finding, by the system, the discovery agent, to find~~ one or more prospective
5 e-services based on one or more search parameters, wherein e-services are published by
6 corresponding service provider organizations in respective e-service descriptions, and wherein
7 finding the one or more prospective e-services comprises matching the one or more search
8 parameters with the published e-service descriptions; and
9 ~~utilizing connecting, by the system, the client agent, to connect~~ to the one or more
10 prospective e-services by employing a protocol that is supported by the one or more service
11 provider organizations providing the one or more prospective e-services.

1 2. (Cancelled)

1 3. (Previously Presented) The method of claim 1, further comprising accessing the
2 e-service descriptions published at websites of corresponding service provider organizations.

1 4. (Previously Presented) The method of claim 1 wherein the one or more search
2 parameters include a description of an e-service by at least one of keywords, category, logical
3 forms and expressions.

1 5. (Previously Presented) The method of claim 1 wherein employing the protocol includes
2 employing a communication protocol and an invocation protocol.

1 6. (Previously Presented) The method of claim 1 wherein employing the protocol includes
2 employing one of HyperText Transfer Protocol (HTTP), File Transfer Protocol (FTP), and
3 Microsoft Message Queue Server (MSMQ).

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1 7. (Previously Presented) The method of claim 1 wherein matching the one or more search
2 parameters with the published e-service descriptions comprises matching the one or more search
3 parameters with the published e-service descriptions contained in an e-service data sheet.

1 8. (Previously Presented) The method of claim 1 wherein matching the one or more search
2 parameters with the published e-service descriptions comprises matching the one or more search
3 parameters with the published e-service descriptions contained in mark-up language documents.

1 9. (Previously Presented) The method of claim 1 wherein matching the one or more search
2 parameters with the published e-service descriptions comprises matching the one or more search
3 parameters with the published e-service descriptions contained in XML documents.

1 10. (Previously Presented) The method of claim 7 wherein each e-service data sheet includes
2 a service description, input schema name, output schema name, and protocols-supported field.

1 11. (Previously Presented) A computer associated with a client organization, the computer
2 comprising:
3 a processor; and
4 a discovery agent executable on the processor to:
5 receive one or more search parameters;
6 access e-service descriptions published at web servers of corresponding service
7 providers, wherein the e-service descriptions describe respective Internet-based commercial
8 services provided by corresponding service providers;
9 match the received one or more search parameters with the e-service descriptions
10 to identify one or more e-services satisfying the one or more search parameters; and
11 a client agent executable on the processor to connect to one or more web servers of
12 corresponding one or more service providers that provide the identified one or more e-services.

1 12. (Cancelled)

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1 13. (Previously Presented) The computer of claim 11 wherein the discovery agent and the
2 client agent are disposed in a system of one of the service providers.

1 14. (Previously Presented) The computer of claim 11, comprising a server containing the
2 discovery agent and the client agent, wherein the server is disposed in a location that is remote
3 from the client organization.

1 15. (Previously Presented) The computer of claim 11 wherein the discovery agent includes
2 a match unit for receiving the one or more search parameters and the e-service
3 descriptions, and based thereon for generating a first list of prospective services that meet the one
4 or more search parameters;
5 a semantic search unit for receiving the one or more search parameters and the e-service
6 descriptions, and based thereon for generating a second list of prospective services that meet the
7 one or more search parameters; and
8 a search result generator coupled to the match unit and semantic search unit for receiving
9 the first list of prospective services and the second list of prospective services and based thereon
10 for generating a final list of prospective services.

1 16. (Previously Presented) The computer of claim 15 wherein the match unit includes fuzzy
2 logic.

1 17. (Cancelled)

1 18. (Previously Presented) The computer of claim 11 wherein each e-service description is a
2 mark-up language document.

1 19. (Previously Presented) The computer of claim 18 wherein each e-service description is
2 an XML document.

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1 20. (Previously Presented) The computer of claim 11 wherein each e-service description
2 includes one of a service description, input schema name, output schema name, and protocols-
3 supported field.

1 21. (Previously Presented) The method of claim 1, wherein matching the one or more search
2 parameters with the published e-service descriptions comprises matching the one or more search
3 parameters that contain at least price and quantity parameters.

1 22. (Previously Presented) The method of claim 1, wherein matching the one or more search
2 parameters with the published e-service descriptions comprises matching the one or more search
3 parameters with the published e-service descriptions that describe Internet-delivered commercial
4 services.

1 23. (Previously Presented) The method of claim 1, wherein matching the one or more search
2 parameters to the published e-service descriptions comprises matching the one or more search
3 parameters using fuzzy matching logic in the discovery agent.

1 24. (Previously Presented) The method of claim 1, wherein matching the one or more search
2 parameters to the published e-service descriptions comprises matching the one or more search
3 parameters by selectively using one of fuzzy matching logic and clean matching logic in the
4 discovery agent, wherein the clean matching logic determines with certainty whether a match has
5 occurred, and the fuzzy matching logic determines a probability of whether a match has
6 occurred.

1 25. (Previously Presented) The method of claim 1, wherein the system associated with the
2 client organization and that includes the discovery agent and the client agent comprises a server
3 that is remote from the client organization.

1 26. (Previously Presented) The method of claim 1, further comprising receiving the one or
2 more search parameters in a predetermined form having plural fields that are filled by a user.

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1 27. (Previously Presented) The computer of claim 11, wherein the one or more search
2 parameters received by the discovery agent comprise at least price and quantity parameters.

1 28. (Previously Presented) The computer of claim 11, wherein the e-service descriptions
2 comprise e-service data sheets published by respective service providers.